Testing New Guns at Indian Head them up. The greatest drawback to this scheme seems to be the question as to whether or not the magnet would

is perfect and will not explode.

The place where the guns are tested is at Indian Head, Va., twenty-seven miles down the river-a place which might well be termed "the exclusive," for the officials of the Navy Department cho have charge of Indian Head jealmsly guard it against the inroads of the "write-up man" and the photog-

Every gun which is used on the United States vessels must first go through rigorous examination at Indian Head. This holds good even in the case of the savy yards here, and, although they are first tested at the factory, they still sust pass muster before Uncle Sam's own selected experts in the matter. This s also the case when armor is bought. in such cases test plates are sent to Infian Head and examined there before a final decision is rendered as to its qual-

While it would appear on the surface hat \$300,000 was a considerable amount at money to spend annually for the purpose of simply testing guns and plates. may officials do not feel so. They decare, on the contrary, that it is better m pay that amount of money in testing the guns than to let them pass without the proper inspection, and explode when on a vessel, and thus jeopardize the ires of the crew as well as the ship

The guns used in the United States Navy range from the one-pounder to the fourteen inch guns, there being thirteen in all. Each time that one of the one-pounders is discharged it costs the government only \$1.25, but in the ase of the fourteen-inch gun the cost maches the three-hundred-dollar mark. These figures represent the price of the projectile used in testing the guns as as the powder. The powder used is both testing and actual firing in time war is the same, but the projectile differs. While the cost of firing the would cost the government approxim-This tends to support the saying, "In scrap iron. time of peace prepare for war," and It is in the latter form that many of

200,000 a year for ammunition with it is done in conjunction with testing are imbedded in it. Another drawback the guns, and thus answers two puris the fact that even though the proposes, and which, after it has served also found by sighting the gun so that the United States government does not the shell will pass through two wire relinquish its claim upon them, and the bottom of the Potomac river. Such screens, electrically arranged, so that were they regained would pay only as they record the time of passage through much as they would bring in the open each one. This makes it possible to market as scrap iron, whereas the chemgreen used to destroy the enemies of gauge the velocity, as the distance besits wanted the right to recover them his country, but to prove that the gun tween the two screens is a known himself.

within a short distance of the place tries in testing their guns. at the same time the danger is removed, the projectiles used. few gans which are not made at the and the navy death list shows only one or two names of men killed while on duty testing guns.

most part armor piercing, or those used in actual service. This target is so arranged that a considerable number of the shell hitting will fall into a sand ing ground either method is impracticbank from which they can be dug and able, and it is hardly probable that a perhaps used again. But for long range method will soon be devised by which firing the Potomac river has to serve as the projectile shot into the river will be a target, with the result that of all the recovered, which, however, would be shells fired at Indian Head, nearly five-gladly taken up by the government sixths eventually repose in the river should one prove feasible." bed. Of course in firing the guns the powder explodes, but the projectiles themselves are expensive, ranging from approximately less than a dollar for the one-pounder up to fifty for the-fourteeninch gun. In this way it can be estimated that each month over \$4000 worth of shells find a resting place at the bottom of the Potomac, which in a year would amount to fifty odd thousand dollars. If the figures are carried out for the entire time that Indian Head has been used as the navy proving grounds they will reach seventy-five hundred thousand dollars, as Indian Head was first used in that connection in 1896. If these could be gotten within a short time after they had been me-pounder in time of war would still fired, it is believed that in many cases be reasonable, the fourteen-inch gun they would be fit to use again. As it however, they become rusted, and stely \$600 each time it was discharged, if regained are good only to sell as

sows in addition that probably Uncle the old projectiles are sold, both the sun knows more than anybody else just target and armor-piercing. At regular what the cost of following such advice intervals the government sells at auction the accumulated mass of scrap iron, There are between fifteen and twenty which is sold to the highest bidder, and gas tested at Indian Head every sometimes remade into projectiles which month, with an average discharge of are again sold to the government. In time hundred odd projectiles, which connection with the projectiles which makes the average monthly cost some. are at the bottom of the Potomac some thing like twenty-five thousand dollars, interesting theories have been expressed

work through several feet of mud, as Tacle Sam is spending an average of is making experiments along these lines river, and the projectiles most likely

> In connection with this phase of the In testing the guns a specially ar- work one of the officers conversant with ranged bombproof fort-like arrange affairs at Indian Head, and abroad also, ment has been built to protect the men gave some interesting data regarding making the experiments. This is built the methods employed by other coun-

> where the guns are fired. The gun is "In Germany they use what is called aimed, loaded and made ready to fire, a land range. This is composed of a The men then retire into the house and large tract of ground, which has been at a given signal from a man posted condemned and is used for no other within sight of the gun, but outside the purpose. When a projectile is fired it danger zone, a string is pulled by the falls to the ground, and men whose duty men inside which fires the gun. By it is to watch where each falls. Followthis advice the guns are tested and ing a test men are sent out and dig up

> "In England they have a different method. They do their firing down a beach on which the high and low tide Two targets are used for testing pur- is very marked. They do their firing poses. One is a sand butt, the other, at high tide, apparently into the ocean, called a "range," is simply down the but at low tide the beach is clear, and Potomae. When the first target is used the poor people of that district go out the projectiles discharged are for the and recover the shells and sell them

back to the government. "But as long as the United States continues to use Indian Head as a prov-

THE WHEREFORE.

"Your daughter practises on the piano faithfully, I notice. Now mine

"Mine does too. But she'd rather practise all day than help with the housework. ''-Louisville Courier-Jour-

FUTURE GAINS FOR PRESENT

"I shouldn't mind having my contributions paid for on publication, were

"What "

"That my meals have to be paid for on acceptance. ''-Lippincott's,

A SCARECROW.

Miss Brush-"I suppose you don't mind my being in your field, Mr.

Farmer Gobel (heartily)-"The longer you stay, the better, Miss. Fact is, the birds 'ave been very troublesome this season,' -London Tatler,

THE REASON WHY.

ry the first time he proposed."

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